

**IBM ASSIGNMENT 2 - TO GET TEMPERATURE AND HUMIDITY VALUES AND
DETECT ALARM INCASE OF HIGH TEMPERATURE.**

```
import random
```

```
temp=random.uniform(0,50)
```

```
#by using random.uniform function a random float value will be generated for temp for  
#example:25.718184973594976
```

```
print("TEMPERATURE:",temp)
```

```
temp=round(temp, 2)
```

```
#by using round of function the decimal points in the temp will be reduced for example:25.7
```

```
print("TEMPERATURE:",temp)
```

```
#by using if condtion & elif condition the temp level is observed
```

```
if(temp<=0):
```

```
    print("very cold")
```

```
elif(temp<=20):
```

```
    print("cold")
```

```
elif(temp<=30):
```

```
    print("Room temp")
```

```
elif(temp<=45):
```

```
    print("hot")
```

```
else:
```

```
    print("very hot alarm will be on")
```

```
humidity=random.randint(0,100)
```

```
#by using random.randint function a random int value will be generated for humidity for example:55
```

```
print ("HUMIDITY:",humidity)
```

```
#by using if condtion & elif condition the humidity level is observed
```

```
if(humidity==0):
```

```
    print("no humidity")
```

```
elif(humidity<=50):
```

```
    print("humidity is low")
```

```
else:
```

```
    print("humidity is high alarm will be on")
```

OUTPUT:

```
TEMPERATURE: 5.14227964069941
```

```
TEMPERATURE: 5.14
```

```
cold
```

```
HUMIDITY: 75
```

```
humidity is high alarm will be on
```